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# **WATER SUPPLY OUTLOOK FOR IDAHO**

Prepared by  
**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**  
Collaborating with  
**IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**JAN. 1, 1971**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia





# **WATER SUPPLY OUTLOOK FOR IDAHO**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

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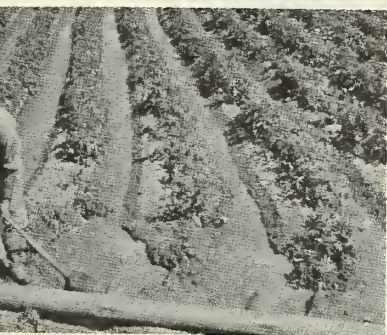
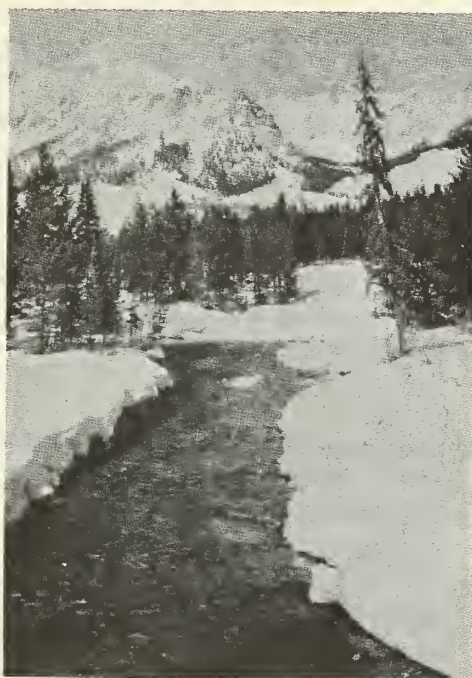
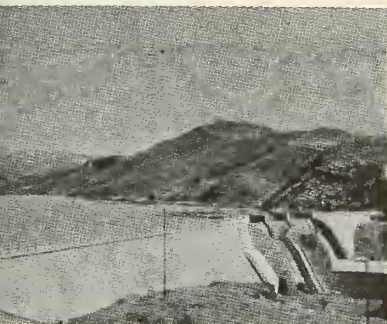
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**J. ALDEN WILSON, Assistant Snow Survey Supervisor**

SOIL CONSERVATION SERVICE  
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ROOM 345, 304 N. 8th. ST.  
BOISE, IDAHO 83702



# WATER SUPPLY OUTLOOK for IDAHO



## GENERAL SUMMARY FOR JANUARY 1, 1971

Snowfall throughout the entire state of Idaho has been well above normal for 1971. In some areas snow water equivalent as of January 1 is at an all time high for this time of year.

Fall rains primed the soil beneath the snowpack and in some areas such as the Portneuf River, Owyhee River, and the Teton River, soil moisture is higher than has ever been recorded at this time with completely saturated soils. Temperatures during the latter part of December and the first few days of January have been unusually low resulting in frozen soils and very low density snow cover.

The water supply outlook, in general, looks excellent for 1971 with the possibility of too much water on some rivers. The Boise Front has an unusually heavy snow cover, but the snow came early and the soil beneath the snow is not frozen. This is a great advantage in case of chinook winds or warm rains between now and March.

On such low elevation drainages as Willow Creek-Sand Creek above Idaho Falls, Portneuf River above Pocatello, and on Camas-Beaver Creeks near Dubois, there is a combination of saturated soil, frozen soil, and unusually heavy snow cover. On these drainages and other similar low elevation watersheds, there is a possibility of extremely high, fast runoff if a chinook or warm rainy period occurs in the next six weeks.

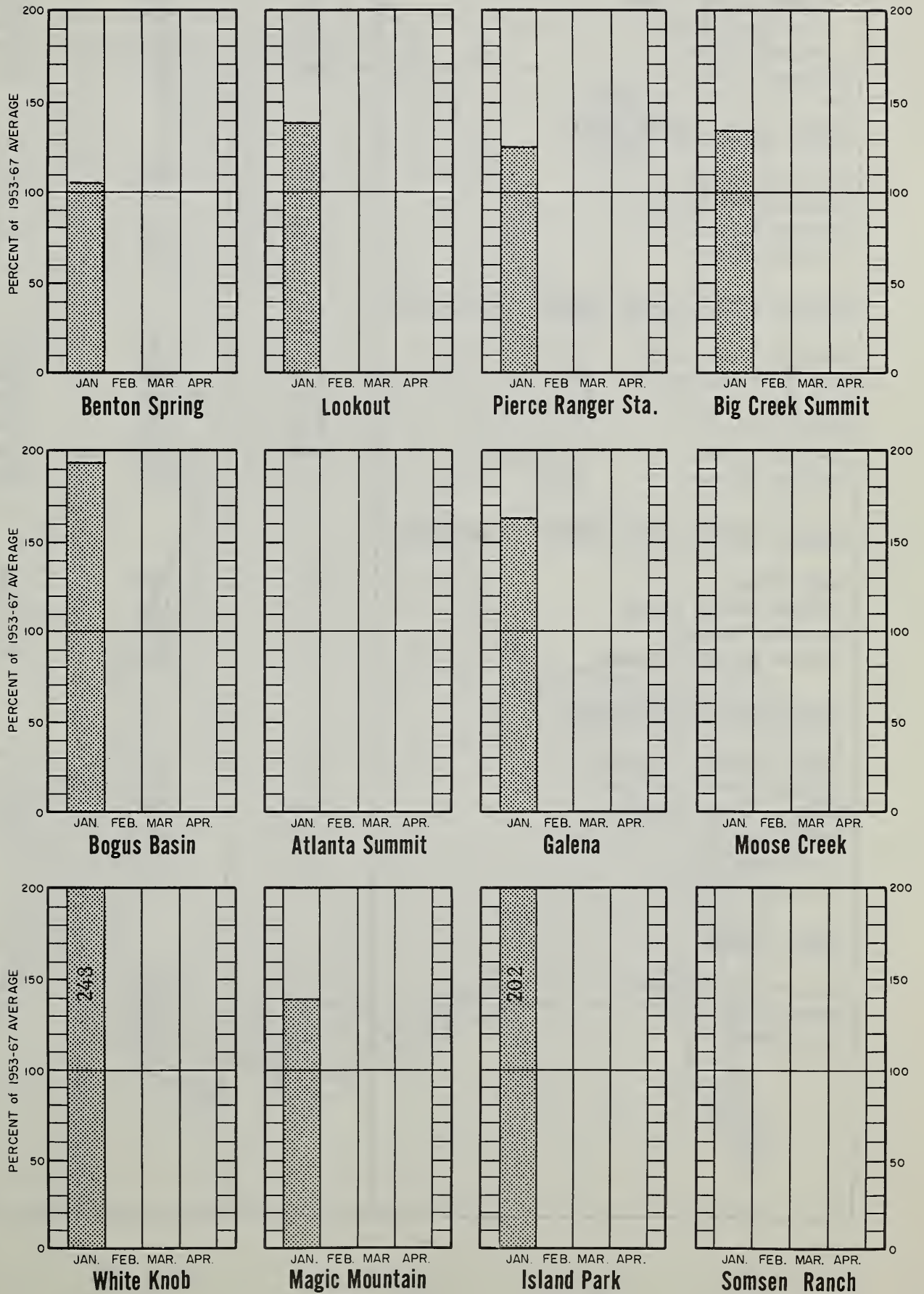
The Camas-Beaver Creek drainage has a snow cover at this time which exceeds anything of record for 34 years. Usually about one-third of the total snow cover is down by January 1, but in the case of these two drainages, water content of the snow already exceeds the average for a total year's snow cover.

Special measurements will be taken by the Soil Conservation Service and cooperators to evaluate the flood potential on the low elevation watershed where a distinct hazard exists at this time.

Reservoir storage throughout the state is excellent. Carry-over storage in every reservoir in the Snake River Basin is above the 1953-67 average.



**SNOW WATER DEPTHS ACCUMULATION**  
**For Selected Snow Courses**  
 As Compared To 1953-67 15 Yr. Average  
 January 1, 1971



## COMPARISON of SNOW COVER

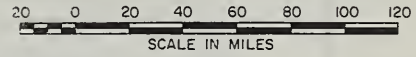
RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1953-57 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	--	--	--
Pend Oreille River	14	249	142
Clark Fork River	8	185	128
Flathead River	6	277	140
Priest River	2-4	232	126
Spokane River	2-5	237	145
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	5	159	131
Clearwater River	--	--	--
Salmon River	8-12	215	152
Lemhi River	6	146	--
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5	293	157
Big Lost River	1-3	354	248
Big Wood River	4-5	277	173
Boise River	3-5	213	170
Payette River	7-8	207	194
Weiser River	1	225	186
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	1	128	141
Salmon Falls Creek	3	126	152
Bruneau River	1	127	191
Owyhee River - Idaho	2	222	248
<u>UPPER SNAKE RIVER BASIN</u>			
Upper Snake - Wyoming	16	--	164
Camas-Beaver Creeks	2	264	276
Henrys Fork River	3-4	238	188
Teton River	2-3	145	135
Blackfoot River	2	227	--
Portneuf River	5	181	--
<u>GREAT BASIN</u>			
Montpelier Creek	4	264	144
Mink Creek	1	216	163
Cub River	2	262	--

# SNOW WATER DEPTHS




As percent of 1953-67 15 year average

January 1, 1971

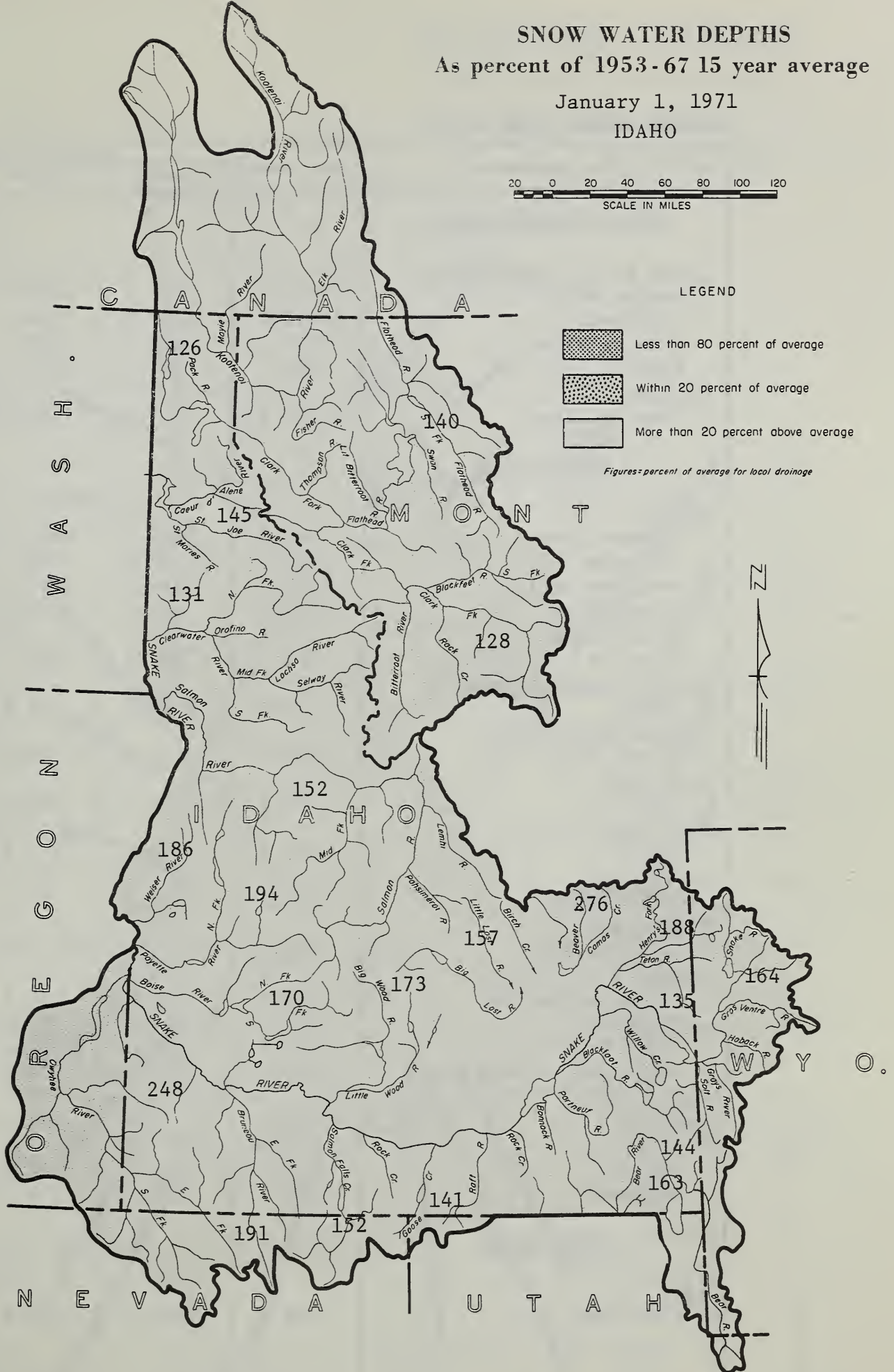
IDAHO



## LEGEND

-  Less than 80 percent of average
-  Within 20 percent of average
-  More than 20 percent above average

Figures: percent of average for local drainage





## RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1933-67 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2271.0	2012.0	2766.0*
Flathead	1791.0	1282.0	1336.0	1330.0
Pend Oreille	1155.1	143.7	130.7	515.4
Noxon	334.6	324.4	325.6	321.1*
<u>Spokane</u>				
Coeur d'Alene	225.1	63.5	53.8	153.2
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	579.4	606.4	423.4
Palisades	1200.0	972.5	795.0	634.0*
American Falls	1700.0	1230.8	1036.1	1029.7
Island Park	127.0	109.4	94.8	76.2
Grassy Lake	15.2	11.9	7.7	10.2
Brownlee	980.2	800.8	819.6	773.2*
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	22.9	11.9	11.2
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	34.3	23.4	19.9
<u>Big Lost</u>				
Mackay	44.2	32.7	25.7	25.4
<u>Big Wood</u>				
Magic	191.5	116.0	112.6	87.2
<u>Little Wood</u>				
Little Wood	30.0	16.1	17.1	8.5*
<u>Fish Creek</u>				
Carey Valley	14.4	6.5	6.2	--
<u>Boise</u>				
Anderson Ranch	423.2	346.0	314.5	250.0
Arrowrock	286.6	267.9	156.6	197.5
Lucky Peak	278.2	102.0	56.9	58.0*
Lake Lowell (Deer Flat)	169.0	124.0	134.5	93.0
<u>Owyhee</u>				
Owyhee	715.0	581.8	469.5	330.8
<u>Payette</u>				
Cascade	653.2	446.0	253.9	283.8
Deadwood	161.9	85.2	73.1	63.5
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1109.1	1116.8	845.0

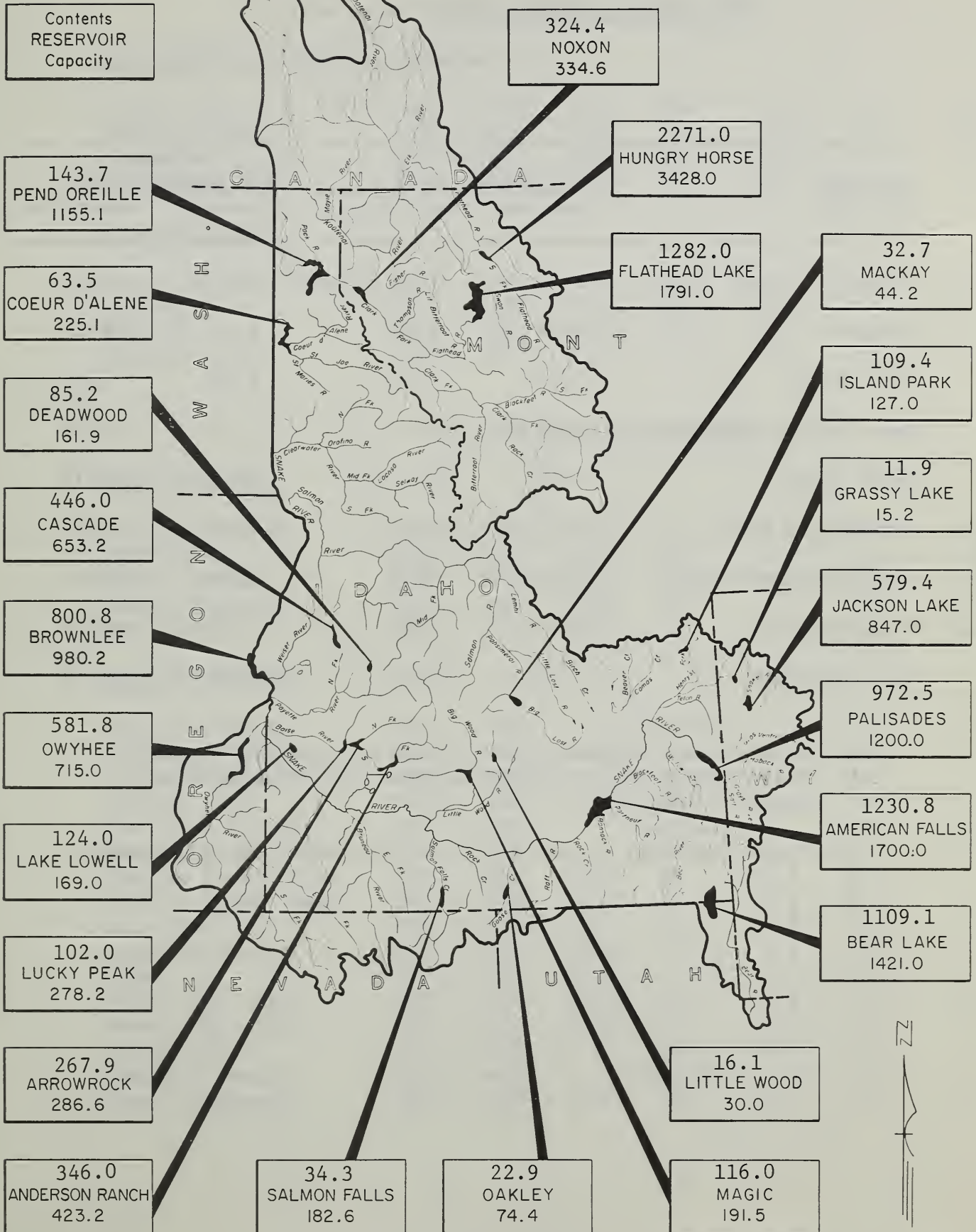


# RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

January 1, 1971

50 0 50 100 150  
SCALE IN MILES



VALLEY PRECIPITATION 1/

## Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Fall		Winter	
	Sept-Oct 1970		Nov-Dec 1970	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	3.37	-0.17	6.01	-0.32
Flathead	2.99	-0.07	4.97	+0.55
Clark Fork	1.92	+0.16	1.66	-0.30
Pend Oreille-Spokane	4.30	+0.42	7.71	-0.36
Upper Snake	4.30	+1.73	6.23	+2.13
SNAKE RIVER PLAIN	1.61	+0.51	3.29	+1.41
Salmon-Payette-Boise	3.40	+1.27	3.14	+3.43
Clearwater	5.40	+1.77	5.50	-0.29
Owyhee-Malheur	1.68	+0.46	3.95	+1.74

1/ Preliminary analysis by U.S. Weather Bureau from data furnished by Meteorological Service of Canada and U.S. Weather Bureau.

2/ Departure from 15-year (1953-67) drainage division average.

## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

UPPER COLUMBIA RIVER BASINPEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	12/30	24	5.9	2.4	3.2
Benton Spring	16A3	4900	12/31	39	9.0	3.8	8.6
Schweitzer Bowl	16A6	4500	12/31	73	17.2	7.7	--
Schweitzer Ridge	16A5	6100	12/31	98	28.0	12.0	--

SPOKANE RIVER

Fourth of July Summit	16B3	3100	12/31	31	6.0	1.8	3.5*
Lookout	15B2	5250	12/31	85	21.8	9.0	15.7
Sherwin	16C1	3200	12/31	34	6.8	3.8	--
Sherwin (SP)	16C51S	3200	12/31	--	7.3	3.6	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	16C6	3340	12/29	18	3.8	2.6	2.5*
East Twin	16C3	4050	12/29	15	2.6	2.8	3.9*
Howard Creek	16C5	3450	12/31	22	4.1	1.9	1.6*
Moscow Mountain	16C2	4400	12/31	34	7.5	4.4	5.9*
West Twin	16C4	4250	12/29	23	4.1	2.2	3.0*

CLEARWATER RIVER

Cayuse Airstrip	15C3	3700		Delayed		4.3	3.6*
Cottonwood Butte	16C16	5140	12/29	24	5.0	2.6	--
Crater Meadows	15C9	6100		Delayed		13.9	--
Crooked Fork	14C10	3800	12/31	31	6.1	3.2	--
Fish Lake Airstrip	15C2	5000		Delayed		13.6	16.8*
Hemlock Butte	16C6	5500		Delayed		11.2	--
#Hoodoo Basin Mont.	15C10	6000	12/29	89	25.2	12.9	--
#Hoodoo Creek Mont.	15C1	5900	12/29	84	23.4	10.2	--
Lolo Pass	14C5	5230	1/2	65	15.8	6.8	--
Lower Snowhaven	16D7	5250	12/29	37	8.6	5.1	--
Midway	16C12	2200	12/31	T	T	1.0	--
Pierce Rgr. Sta.	15C5	3170	12/31	29	5.4	3.0	4.3*
Powell Rgr. Sta.	14C6	4230	12/31	31	5.9	2.8	--
Savage Pass	14C4	6600	1/1	59	12.2	5.8	--
Shanghai Summit	15C4	4600		Delayed		7.4	--
Upper Snowhaven	16D4	5600	12/29	37	9.2	5.5	--

(b) 1953-67, 15 year period. \* Not located directly on this drainage. \* Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

SALMON RIVER

Big Creek Summit	15E2	6600	12/30	84	22.7	11.2	17.0*
#Boulder Creek	16D1	5500	12/31	70	18.0	8.0	9.7*
Brundage Mountain	16D6	7560	12/29	104	30.8	16.6	--
Chapman Creek	16D2	4215	12/29	10	1.5	0.4	1.5*
#Galena Summit	14F12	8795	12/28	59	15.8	6.9	9.9
#Gibbons Pass Mont.	13D2	7100	12/31	53	12.9	5.6	9.6
Johns Creek	16D3	3805	12/29	9	1.0	0.2	1.1*
Mill Creek Summit	14E1	8870	12/30	49	14.0	6.5	--
Moose Creek	13D16	6200	12/30	36	8.0	4.0	--
Morgan Creek	14E4	7580	12/31	35	8.4	3.7	--
#Rock Flat Summit	16E1	5200	12/29	57	12.8	5.2	6.6
Whitebird Summit	16D5	4390	12/29	16	2.8	1.0	2.2*

Lemhi River

Above Gilmore	13E19	8200	12/29	28	5.6	3.9	--
Aspen-Hall Pass	13E21	8110	12/28	21	3.7	4.9	--
Copes Camp	13E17	7500	12/28	20	4.3	2.4	--
Hall Creek	13E20	7560	12/28	11	1.9	2.2	--
Meadow Lake	13E18	9100	12/29	44	11.5	5.8	--
Schwartz Lake	13E16	8500	12/28	28	7.3	4.3	--

## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>SPOKANE RIVER</u>							
Fourth of July Summit	3100	48	11.6	12/31	9.8	8.2	10.2
Lookout	5250	48	11.0	12/31	8.2	7.4	8.5
<u>CLEARWATER RIVER</u>							
Brown	3100	36	6.7	12/31	6.0	5.6	5.8
Midway	2200	36	6.1	12/31	4.9	5.0	5.4
<u>SALMON RIVER</u>							
Mill Creek Summit	8870	48	8.4	12/30	5.8	4.4	6.8
<u>Lemhi River</u>							
Above Gilmore	8200	60	5.4	12/29	2.8	2.4	4.3
Meadow Lake	9100	48	4.4	12/29	2.4	1.9	2.6

(b) 1953-67, 15 year period. \* Not located directly on this drainage. \* Estimated 1953-67, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Sta.	13E5	6750	12/29	16	3.3	1.2	1.6*
Lost Garfield	13E3	6600	12/29	11	2.0	1.0	1.5*
Moonshine	13E6	7450	12/29	31	6.6	2.2	4.8*
Sawmill Canyon	13E4	6900	12/29	23	4.9	1.5	3.5*
Wet Creek Summit	13E7	7600	12/30	36	7.8	2.5	4.3*

BIG LOST RIVER

Iron Bog	13F11	7650	12/28	42	9.8	2.8	--
Leadbelt	13F12	6800	12/28	32	7.1	2.0	--
White Knob	13F1	7700	12/31	31	7.2	2.0	2.9

BIG WOOD RIVER

#Couch Summit	14F10	6950	12/29	58	12.6	--	--
Galena	14F1	7300	12/28	51	12.7	5.4	7.8
Galena Summit	14F12	8795	12/28	59	15.8	6.9	9.9
Graham Ranch	14F5	6200	12/30	51	11.4	3.0	5.6
Mount Baldy	14F9	9000	12/31	62	15.2	4.6	8.8
Soldier Rgr. Sta.	14F11	6100	12/29	44	7.7	--	4.3*

BOISE RIVER

Atlanta Summit (A)	15F4	7500	12/29	84	20.2	9.1	--
Bad Bear	15F2	5500	12/29	34	8.2	3.0	4.9*
#Bogus Basin	16F2	6120	12/28	54	15.7	8.5	8.1
Couch Summit	14F10	6950	12/29	58	12.6	--	--
Moores Creek Summit	15F1	6100	12/29	77	19.0	9.0	12.3
#Soldier Rgr. Sta.	14F11	6100	12/29	44	7.7	--	--
Trinity Mountain (A)	15F5	7780	12/29	93	24.2	11.4	--

PAYETTE RIVER

#Big Creek Summit	15E2	6600	12/30	84	22.7	11.2	17.0*
Bogus Basin	16F2	6120	12/28	54	15.7	8.5	8.1
#Brundage Mountain	16D6	7560	12/29	104	30.8	16.6	--
Cozy Cove	15E8	5900	12/29	63	14.7	6.6	5.9
Crawford Rgr. Sta.	15E3	4800	12/30	41	8.1	2.6	2.7*
Deadwood Airstrip	15E10	5440	12/29	61	14.5	6.4	5.6*
Deadwood Dam	15E7	5290	12/29	59	13.2	6.8	6.5
Rock Flat Summit	16E1	5200	12/29	57	12.8	5.2	6.6

WEISER RIVER

Boulder Creek	16D1	5500	12/31	70	18.0	8.0	9.7*
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(b) 1953-67, 15 year period. \* Not located directly on this drainage. \* Estimated 1953-67, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>LITTLE LOST RIVER</u>							
Fairview Guard Station	5850	42	7.6	12/29	7.5	7.3	8.5
Wet Creek Summit	8175	48	17.1	12/30	13.0	12.4	16.3
<u>BIG WOOD RIVER</u>							
Galena	7300	48	10.1	12/28	5.8	4.2	8.5
Galena Summit	8795	48	5.8	12/28	Frozen	1.7	3.0*
<u>BOISE RIVER</u>							
Bogus Basin Road	4830	48	7.1	12/23	5.7	4.7	5.7
* Fall Measurement							

## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	
						LAST YEAR	AVERAGE <sup>b</sup>

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Howell Canyon	13G1	8000	1/4	45	13.3	10.4	9.4*
---------------	------	------	-----	----	------	------	------

SALMON FALLS CREEK

Deadline	14G4	6900	12/29	44	10.6	8.6	8.1*
Magic Mountain	14G2	6700	12/29	33	8.8	6.9	6.3*
#Pole Creek R. S. Nev.	15H14	8330	12/29	41	12.4	9.8	6.5*

BRUNEAU RIVER

Pole Creek R. S. Nev.	15H14	8330	12/29	41	12.4	9.8	6.5*
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OWYHEE RIVER

Silver City	16F3	6400	1/4	39	11.1	4.9	4.9*
South Mountain	16G1	6340	1/4	32	10.0	4.6	3.6*

## SOIL MOISTURE

STATION		PROFILE (inches)		SOIL MOISTURE (inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>RAFT RIVER</u>							
Howell Canyon	8000	48	11.5	--	--	7.1	7.1
<u>SALMON FALLS CREEK</u>							
Deadline	6900	36	7.4	12/29	6.7	6.1	7.0
Patrick Ranch	5720	36	7.7	12/28	4.5	4.6	4.5
Pole Creek R. S.	8330	48	9.7	12/28	6.6	5.2	6.2
<u>OWYHEE RIVER</u>							
Mud Flat	5500	48	12.8	11/17	12.3*	--	10.8*
* Fall Measurement							

(b) 1953-67, 15 year period. \* Not located directly on this drainage. \* Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Camp Creek	12E3	6800	12/30	40	9.7	3.3	3.5
Kilgore	11E12	6200	12/28	41	9.6	4.0	3.5*

HENRYS FORK RIVER

Grassy Lake	Wyo.	10E15	7230	1/3	75	22.1	12.4	13.4
Island Park		11E10	6315	12/29	58	11.3	4.6	5.6
Targhee Pass		11E34	7000	12/30	50	12.1	4.0	--
Valley View		11E8	6500	12/30	47	12.2	3.2	5.3

TETON RIVER

Freds Mountain		10F22	8000	12/30	54	13.1	9.4	--
Pine Creek Pass		11F2	6750	12/30	37	8.3	5.9	6.0*
State Line		11F1	6400	12/30	31	7.1	4.3	5.4

WILLOW CREEK

Bone		11F8	6200	12/30	22	4.4	2.0	--
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SAND CREEK

Henry Creek		11F6	5650	12/31	13	2.8	1.3	--
Taylor Mountain		11F7	6500	12/31	19	4.1	3.2	--

BLACKFOOT RIVER

China Hat		11G2	6300	12/29	11	2.8	1.3	--
Somsen Ranch		11G1	7000	12/29	37	8.3	3.6	--

PORTNEUF RIVER

Cove		11G25	5525	12/30	17	2.5	0.5	--
Lower Pebble		12G6	5800	12/30	30	5.9	2.5	--
Moser		11G24	5950	12/30	19	4.0	1.1	--
North Bancroft #1		11G23	5460	12/30	10	2.2	0.8	--
North Bancroft #2		11G22	5430	12/30	7	1.0	0.5	--

(b) 1953-67, 15 year period. \* Not located directly on this drainage. \* Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	12/29	8.3	7.6	9.0
Valley View	6500	48	13.3	12/30	Frozen	3.8	9.1
<u>TETON RIVER</u>							
Pine Creek Pass	6750	48	13.3	12/30	12.4	10.2	13.2
State Line	6400	48	14.8	12/30	15.5	10.7	13.0
Teton Pass	8500	48	10.5	12/30	8.9	7.3*	8.1
<u>PORTNEUF RIVER</u>							
Lower Dempsey	5210	48	18.7	11/2	15.2*	13.6*	15.8 <sup>c</sup>
Lower Pebble	5800	36	7.6	12/30	8.5	4.2	7.9
Pebble Creek	6550	48	7.2	11/2	4.0*	3.8	6.2
* Fall Measurement							
d December Measurement							

## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
						LAST YEAR	AVERAGE <sup>b</sup>

GREAT BASINBEAR RIVER

Emigrant Summit	11G6	7350	12/28	55	14.5	6.7	8.9*
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Montpelier Creek

Giveout	11G16	6840	12/28	31	7.7	3.9	5.0*
Little Beaver	11G20	6970	12/28	36	9.2	2.9	6.4*
Montpelier Creek	11G18	6570	12/28	21	4.8	2.1	4.1*
Whiskey Flat	11G21	6985	12/28	26	6.8	1.9	4.3*

Mink Creek

#Emigrant Summit	11G6	7350	12/28	55	14.5	6.7	8.9*
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Cub River

Cub River R. S.	11G12	5400	12/28	21	3.6	2.1	--
Willow Flat	11G4	6100	12/28	35	8.2	2.4	--

## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.2	12/28	5.8	6.2	4.1
<u>Montpelier Creek</u>							
Giveout Pass	7025	36	9.4	12/28	7.2	4.0	4.0
Jenson Ranch	6580	48	18.7	12/28	6.6	8.7	8.8

(b) 1953-67, 15 year period. \* Not located directly on this drainage. \* Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Cane, snow-water equivalent.

# Agencies and Organizations Cooperating in Idaho Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Department of Lands, Forests, and  
Water Resources, British Columbia  
Department of Resources and Development,  
Water Resources Division

### States:

Idaho State Department of Water Administration  
State of Idaho Department of Fish and Game  
University of Idaho  
Idaho State University  
Montana Agricultural Experiment Station  
Montana State Water Conservation Board  
Nevada Cooperative Snow Surveys  
Oregon Agricultural Experiment Station  
Oregon Cooperative Snow Surveys  
Oregon State Engineer and Corps of  
State Watermasters  
Utah Cooperative Snow Surveys  
Wyoming Cooperative Snow Surveys

### Federal:

U. S. Army Engineers  
U. S. Department of Agriculture  
Forest Service  
Agricultural Research Service  
U. S. Department of Commerce  
Environmental Sciences Service Administration,  
Weather Bureau  
U. S. Department of the Interior  
Bonneville Power Administration  
Bureau of Reclamation  
Fish and Wildlife Service  
Water Resources Division, Geological Survey  
Indian Service  
National Park Service  
Bureau of Land Management

## PUBLIC UTILITIES

The Montana Power Company  
Washington Water Power Company  
Idaho Power Company  
Utah Power and Light Company

## ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District  
Boise Project Board of Control  
Little Wood River Irrigation District  
Jordan Valley Irrigation District  
Salmon Falls Creek Irrigation Company  
Twin Falls Soil Conservation District  
Twin Lakes Irrigation Company  
Big Wood Irrigation Company  
Owyhee Project - North & South Board of Control

## PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for  
snow survey reports. Their cooperation is gratefully acknowledged.*

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